

Rabbit anti-Human, Mouse SKP2/p45 Polyclonal Antibody | anti-SKP2 antibody

SKP2/p45 Antibody

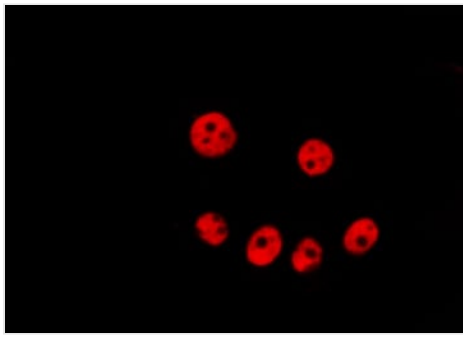
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321067	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

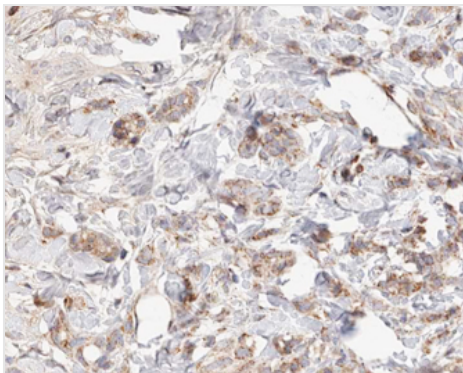
SKP2/p45; Polyclonal Antibody; SKP2/p45 Antibody; CDK2/Cyclin A associated protein p45; Cyclin A/CDK2 associated protein p45; Cyclin-A/CDK2-associated protein p45; F box protein Skp2; F box/LRR repeat protein 1; F-box protein Skp2; F-box/LRR-repeat protein 1; FBL 1; FBL1; FBXL 1; FBXL1; FLB 1; FLB1; MGC1366; p45; p45skp2; S phase kinase associated protein 2 (p45); S phase kinase associated protein 2; S-phase kinase-associated protein 2; S-phase kinase-associated protein 2 E3 ubiquitin protein ligase; SKP 2; Skp2; SKP2_HUMAN; anti-SKP2 antibody

PRODUCT SPECIFICATIONS

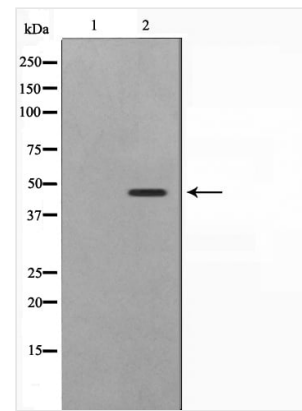
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	SKP2/p45 antibody detects endogenous levels of SKP2/p45
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	210
Applicable Applications for anti-SKP2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SKP2/p45
Subcellular Location	Nucleus
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (100%), Horse (90%), Sheep (100%), Rabbit (100%), Dog (90%), Chicken (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

**IF (Immunofluorescence)**

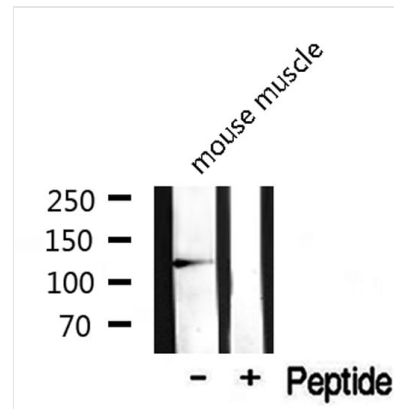
AAA321067 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

**IHC (Immunohistochemistry)**

AAA321067 at 1/100 staining human Breast cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

**WB (Western Blot)**

Western blot analysis on 293 cell lysate using SKP2/p45 Antibody, The lane on the left is treated with the antigen-specific peptide.

**WB (Western Blot)**

Western blot analysis on mouse muscle lysate using SKP2/p45 Antibody

ADDITIONAL INFORMATION

Related Product Information for anti-SKP2 antibody

Description: SKP2 an F-box protein of the SCF (SKP1-CUL1-F-box protein) E3 ubiquitin ligase system. The F-box component of the SCF complex is responsible for recognizing different substrates for ubiquitination. The SCF E3 complex mediates the ubiquitination and subsequent proteasomal degradation of target proteins involved in cell cycle progression, signal transduction and transcription. Specifically recognizes phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition. Degradation of CDKN1B/p27kip also requires CKS1. Three alternatively-spliced isoforms have been described.

Function: Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins involved in cell cycle progression, signal transduction and transcription. Specifically recognizes phosphorylated CDKN1B/p27kip and is involved in regulation of G1/S transition. Degradation of CDKN1B/p27kip also requires CKS1. Recognizes target proteins ORC1, CDT1, RBL2, KMT2A/MLL1, CDK9, RAG2, FOXO1, UBP43, and probably MYC, TOB1 and TAL1. Degradation of TAL1 also requires STUB1. Recognizes CDKN1A in association with CCNE1 or CCNE2 and CDK2. Promotes ubiquitination and destruction of CDH1 in a CK1-Dependent Manner, thereby regulating cell migration.

Subunit Structure: Part of a SCF(SKP2) complex consisting of CUL1, RBX1, SKP1 and SKP2. Component of a SCF(SKP2)-like complex containing CUL1, SKP1, TRIM21 and SKP2. Interacts directly with CUL1 and SKP1. Interacts with CKS1. Interacts with the cyclin-A-CDK2 complex. Interacts with ORC1, phosphorylated CDT1, phosphorylated RBL2, ELF4, phosphorylated RAG2, FOXO1, UBP43, MYC, TOB1, TAL1 and KMT2A/MLL1. Interacts with TRIM21.

Post-translational Modifications: Ubiquitinated by the APC/C complex, leading to its degradation by the proteasome. Deubiquitinated by USP13. Acetylation at Lys-68 and Lys-71 increases stability through impairment of APC/C-mediated proteolysis and promotes cytoplasmic retention. Deacetylated by SIRT3.

References	Zhang Q, Miao S, Li C, Cui K, Ge Q, Chen Z; Journal: Am J Transl Res.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	340805881
NCBI GeneID	6502
NCBI Accession #	NP_001230049.1
NCBI GenBank Nucleotide #	NM_001243120.1
UniProt Accession #	Q13309; Q8TDZ0; Q8TDZ1; Q9BV69; A8K5E0; B4DJT4
Molecular Weight	Observed: 47 kDa Predicted: 48 kDa
NCBI Official Full Name	S-phase kinase-associated protein 2 isoform 3
NCBI Official Synonym Full Names	S-phase kinase associated protein 2
NCBI Official Symbol	SKP2
NCBI Official Synonym Symbols	p45; FBL1; FLB1; FBXL1
NCBI Protein Information	S-phase kinase-associated protein 2
UniProt Protein Name	S-phase kinase-associated protein 2
UniProt Gene Name	SKP2
UniProt Synonym Gene Names	FBXL1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/skp2-p45-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321067>